



Test Script # 4 - Summary

This scenario involves a routine visit for a 77-year-old Veteran with multiple chronic problems including schizophrenia, dementia, poorly-controlled diabetes, hypertension, and drug allergies. Data from this case is used for a quality improvement initiative.

Test Script #4

Key Features of this scenario are:

- . Disease Management
- . Drug/Drug Interaction
- . Drug Allergy
- . Electronic Prescribing
- . Data Collection
- . Quality Improvement Reporting

Test Step		Expected Result	Actual Result	Pass/Fail	
4.01	Login as Dr. Butler.	Login successful			
4.02	Look up patient record by last name SMITH. Select record for Theodore Smith.	2 patient records found. • Joe Smith • Theodore S. Smith Patient record for Theodore S. Smith is selected.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.03	Check patient's medical eligibility; this should read "patient is eligible for coverage through 12/31/2007."	System displays medical eligibility obtained from patient's insurance carrier. This can be accomplished by a text note following telephone verification.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail

Test Step		Expected Result	Actual Result	Pass/Fail	
4.04	Note that patient has a letter from his son that is causing him stress. Scan document into EHR.	EHR reflects the presence scanned document, and document is saved as a scanned image.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.06	Indicate that the Dr. Butler is the primary clinician for this patient.	Patient record identifies the Dr. Butler as the principal care provider.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.07	Review health maintenance services for this patient.	System indicates that lab work is due.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.08	Lipid Test : • Patient does not want the cholesterol test. Override the prompt and enter reason "patient preference."	System provides the ability to document the reason.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.11	Review patient's allergies	Allergies display: • Penicillin • Sulfa drugs		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.12	Problem list displays: • Schizophrenia • Dementia • Positive for type 2 diabetes, elevated cholesterol, hypertension, • Tobacco abuse is added to problem list along with appropriate coding. • System records user ID and date of this update to the problem list. Resolved problems include: • appendicitis, cholecystitis and a cataract.	Problem list displays: • Positive for type 2 diabetes, elevated cholesterol, hypertension • Tobacco abuse is added to problem list along with appropriate coding. • System records user ID and date of this update to the problem list. Resolved problems include: • appendicitis, cholecystitis and a cataract.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail

Test Step		Expected Result	Actual Result	Pass/Fail	
4.13	Show active problems.	Problem list displays: • Schizophrenia, Dementia, Positive for type 2 diabetes, elevated cholesterol, hypertension and, tobacco abuse		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.14	Show inactive / resolved problems. (Note: does not require that the system display a list of inactive/ resolved problems only.)	Problem list (inactive/resolved) displays, indicating he has had: • depression • anxiety		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.15	Display cholesterol lab results (total cholesterol, LDL and HDL) graphically.	Graph displays with distinct data points by date and event. Graph should include four data points as entered from appendix and one from lab result received today.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.16	Display lab results for LDL for this patient sorted by test date.	LDL results display as per Appendix C, sorted by test date.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.17	Display all lab results for this patient sorted by type of test.	Results display as per Appendix C, sorted by type of test.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.18	Change the interval for lipid testing to semi-annually for this patient.	The care plan for this patient can be modified.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.19	In the Problem List, denote "hypertension" as "chronic".	System provides the ability to record the chronicity of the problem.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.22	View active medication profile.	All active medications display: • Lipitor 20 mg a day • Zantac 150 mg a day • Risperidone 30 mg once daily • Aripiprazole 12 mg a day • Lisinopril 10 mg a day • Tums 750 mg several times a day		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail

Test Step		Expected Result	Actual Result	Pass/Fail	
4.23	Show how system provides the ability to create provider specific medication lists.	Applicant demonstrates this function. It is acceptable to either show a look-up using physician preferences or creating a new saved list.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.24	Conduct follow up actions related to problem list: Schizophrenia – • Find notes for this patient with associated diagnosis Schizophrenia	<u>Notes from at least two previous visits (as entered from appendix information) are available. *** DID NOT find specific req for this.</u>		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.25	Increase risperidone to 45 mg p.o. once daily #90 refill x 3	Prescription renewal is allowed. Dose is changed. Prescription is associated with problem Schizophrenia		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.26	Create prescription for "schizophrenia wonder drug."	System allows entry of uncoded medication. System alerts that no interaction checking will be performed against the uncoded medication.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.27	Associate medication risperidone and medication "Schizophrenia wonder drug" with problem "Schizophrenia"	System allows association of medication with problem.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.28	Print risperidone prescription	"Schizophrenia" appears on the printed prescription as associated problem or diagnosis.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.29	Refer patient to Schizophrenia Groups: Generate summary that includes problem list, medication list, allergies and adverse reactions. View and print summary.	Summary generated that includes: • Problem list • Medication list • Allergies list. Summary is displayed and then printed.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail

Test Step		Expected Result	Actual Result	Pass/Fail	
4.33	Delerium – • Renew Aripiprazole	System checks for drug-drug and drug-allergy interactions. Interaction with Risperidone displays.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.34	Override the alert. Document reason for overriding the drug-drug interaction warning as “combination taken previously.”	System accepts reason.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.35	Set the severity level at which this drug interaction warning is displayed.	Severity level can be set.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.36	Proceed with renewal of Aripiprazole	Prescription is renewed.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.37	View active medication profile	All active medications display: • Lipitor 20 mg a day • Zantac 150 mg a day • Aripiprazole 12 mg a day – renewed today • St. Johns Wort • Saw palmetto • Lisinopril 10 mg a day • Tums 750 mg several times a day • Diabetes wonder drug Aleve does not display.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.38	Save the note in progress as a draft.	System allows the note to be saved in progress prior to finalizing the note.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail

Test Step		Expected Result	Actual Result	Pass/Fail	
4.42	Review patient's medication history profile.	All medications display (active and inactive): <ul style="list-style-type: none"> • Lipitor 20 mg a day • Zantac 150 mg tablet a day • Risperidone 45 mg p.o. once daily #90 refill x3 – renewed today • Aripiprazole 12 mg a day – renewed today • Saw palmetto • St. Johns Wort • Lisinopril 10 mg a day • Tums 750 mg several times a day • Diabetes wonder drug 		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.43	Review problem list	Problem list displays: <ul style="list-style-type: none"> • Positive for type 2 diabetes, elevated cholesterol, hypertension and tobacco abuse (with appropriate coding) added today. Resolved problems include:		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.44	Complete and sign off note. Print a copy for the patient.	Note is retrieved from “draft” status, updates to note are captured, and note accepts sign off. System captures identity of the user and date/time of finalization.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.45	Logout as Dr. Butler.	Logout successful.			
4.46	Login as Dr. Butler.	Login successful.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.48	Select record for Theodore S. Smith.	Record selected.			
4.52	Patient is to be referred to VA. Append the last progress note to document that the patient was referred to VA	Note accepts the additional information. Identity of user who added the note, along with date and time of change are recorded and displayed.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.55	Logout as Dr. Butler	Logout successful.			

Test Step		Expected Result	Actual Result	Pass/Fail	
4.59	Login as Dr. Butler. Select patient record for Theodore S. Smith.	Login successful. Patient record selected.			
4.60a (For Hybrid EHR/eRx Only)	Record history: Create a prescription for Donepezil 5 mg by mouth twice daily for 7 days #14 2 refills. (This prescription will be sent electronically in step 4.63a)	History updated with patient-provided information. Note: When creating the prescription, checking interactions, and reviewing medication lists, any of the following will disqualify a hybrid product as not having sufficient workflow integration: <ul style="list-style-type: none"> • Evidence that the user has to log in a second time to a separate application. • Evidence that the user must look up the patient again from a separate patient list. • Evidence that the user must select the prescribed drug more than once, from separate lists. • Evidence that the user must enter the patient's medications or allergies more than once, in separate lists. 		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail

Test Step		Expected Result	Actual Result	Pass/Fail	
4.63a (For Hybrid EHR/eRx Only)	<p>Complete the prescription and send it electronically to the Test Pharmacy.</p> <p>View patient's medication list in the EHR.</p> <p>Setup Information:</p> <ul style="list-style-type: none"> • Pharmacy Name: Test Pharmacy • NCPDP ID: 1112223 • Pharmacy Address: 233 N. Michigan Avenue Suite 2150 Chicago, IL 60601 • Prescriber Registered with Pre-Approved ePrescribing Network: Dr. Internist E. Butler, MD 	<p>Prescription is created and sent to the Test Pharmacy electronically. None of the disqualifying behaviors listed in 4.60a have occurred during steps 4.60a, 4.61, 4.62, or 4.63a.</p> <p>Patient's medication list in the EHR application includes the newly prescribed medication (Donepezil)</p>		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.64	Display potential interactions relating to items on the medication list.	<p>System displays potential interactions:</p> <ul style="list-style-type: none"> • Drug-allergy interaction between Donepezil and St. Johns Wort 		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.65	Review encounter notes; filter, search or order by provider.	System provides the ability to filter, search or order notes by the provider who finalized the note. (Notes for this patient include visits with Dr. Butler and with Dr. Jones.)		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.66	<p>Display all encounters for this patient:</p> <ul style="list-style-type: none"> • Filter by date of service; and • Filter by provider. 	Encounters display, and are first filtered by date of service and then filtered by provider.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.67	Logout as Dr. Butler.	Logout successful.			
4.68	Login as Office Manager.	Login successful.			

Test Step		Expected Result	Actual Result	Pass/Fail	
4.69	The physician is enrolled in a quality improvement initiative and has been collecting data for submission on the quality measures pertaining to schizophrenia. Create a report that captures all patients with a diagnosis of schizophrenia including age and gender. Note: Report may be created prior to the test.	Report displays, includes Jennifer Thompson and Theodore Smith. Report includes patient name, age and gender as requested. Format of the output determined by the Applicant (e.g. printed report, HL7 message, delimited file, etc.).		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.70	Access patient record for Jennifer Thompson; mark this patient "exempt from reporting functions."	System provides ability to mark patient "exempt."		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.71	Run report (as in step 4.69) again.	Report displays, includes Theodore Smith.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.72	Create a hardcopy report for Joe Neighbour that shows: • The most recent visit; and • All visits in the past two years.	Hardcopy output is created, for: • The most recent visit; and • All visits in the past two years.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.73	Create the same output as in step 4.72, this time in electronic format.	An electronic file is created that can be read in Notepad (.txt, .rtf, .csv, etc) and shows: • The most recent visit; and • All visits in the past three months.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.74	Show audit trail for the printing of the hardcopy output in step 4.72.	Audit trail shows date (today) and time (time of step above) and user (Office Manager) for print event.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail

Test Step		Expected Result	Actual Result	Pass/Fail	
4.75	Create a report that captures all male patients.	Report displays, includes Theodore Smith, Joe Smith, Joe Neighbour, Will Haynes and David Carter.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.76	Create a report that captures all patients over the age of 20.	Report displays, includes Theodore Smith and Joe Smith. Jennifer Thompson does not appear as she is marked exempt from reporting functions in step 4.70.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.77	Save the report parameters from step 4.76.	System allows parameters to be saved.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.78	Create a report that captures all patients on Risperidone	Report displays, includes Theodore Smith.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.79	Access the saved report parameters from step 4.76. Remove the patient identifier and address from the report; run that report again.	Report of patients over the age of 20 displays; includes Theodore Smith, Joe Smith; Jennifer Thompson does not appear as she is marked exempt from reporting functions in step 4.70. Patient identifier and address are removed for each patient.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.80	Show audit trail of all users accessing Theodore Smith's chart on today's date.	Audit trail shows that this chart was accessed today by Dr. Butler and Dr. Alexander, including time of access for each user.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail

Test Step		Expected Result	Actual Result	Pass/Fail	
4.82	<p>The Office Manager documents a disclosure made to a local health department as required by HIPAA.</p> <ul style="list-style-type: none"> • The date of the disclosure / report: 1/2/2007 • The name of the person making the disclosure: Dr. Alexander • Reported to: Montgomery County Health Department • Recipient's address: 2000 Dennis Avenue, Suite 238, Silver Spring MD 20902 • Information disclosed: <ul style="list-style-type: none"> – Patient's name – David Carter – Address – 1234 Willow Way, Silver Spring, MD 20902 – Phone: 301-555-4444 – date of birth: 3/2/2000 – diagnosis/condition: Rubella • Purpose of the Disclosure: Required reporting for public health purposes 	<p>Applicant documents the following information to record the disclosure:</p> <ul style="list-style-type: none"> • The date of the disclosure; • The name of the person making the disclosure; • The name of the entity or person who received the protected health information; • The address of such entity or person; • The name of the person making the disclosure; • A brief description of the information disclosed; and • A brief statement of the purpose of the disclosure. <p>Free text (e.g. text note) or structured fields are sufficient to satisfy this requirement.</p>		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.83	Logout as Office Manager.	Logout successful.			
4.84	Login as Dr. Alexander. Select patient record for Joe Smith (birthdate 3/23/1967).	Login successful. Patient record selected.			

Test Step		Expected Result	Actual Result	Pass/Fail	
4.85	Review medication list; the patient takes no medications.	System indicates that this patient currently takes no medications.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.86	Dispense a sample of Adderall. Lot number is F20457 and the expiration date is 11/2009.	System allows for identification of sample dispensed; lot number F20457 and expiration date 11/2009 display.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.87	Logout as Dr. Alexander.	Logout successful.			
	Functionality requires that the EHR system supports multiple concurrent users through application, OS and database. The				
4.88	Login to the EHR system as Dr. Butler and access and view Theodore Smith's patient record.	Login successful.			
4.89	Keeping Dr. Butler's session active and open, login to the EHR System as Dr. Alexander and access and view Theodore Smith's patient record.	Login successful		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail

Test Step		Expected Result	Actual Result	Pass/Fail	
4.90	<p>With both sessions open, demonstrate that the users can view the same patient record for Theodore Smith.</p> <p>NOTE: For instance, Applicant could demonstrate a networked EHR system and show how multiple users are able to simultaneously access the same patient record using different work stations. This would require additional set up by the Applicant to demonstrate this step.</p>	The Applicant demonstrates that Dr. Butler and Dr. Alexander are able to simultaneously view the patient record for Theodore Smith.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail

Test Step		Expected Result	Actual Result	Pass/Fail	
4.91	Dr. Butler begins modifying an element (e.g., progress note, medication list, or blood pressure) in Theodore Smith's patient record. Before that entry is complete, Dr. Alexander concurrently accesses Theodore Smith's patient record and attempts to modify the chart. The system uses some mechanism (e.g. record-level locking, field-level locking, or other protection) to maintain the integrity of clinical data when multiple users access and attempt to modify the same element of the same patient record	Dr. Alexander is allowed to see the patient record, but is not permitted to modify the same element being modified by Dr. Butler. Either record-level locking (Dr. Alexander is blocked from making any changes to the record), field-level locking (Dr. Alexander is blocked from changing only the element being modified by Dr Butler), or another mechanism (e.g., Dr. Alexander or Dr Butler receive a warning of the conflict before they complete their entry) are acceptable.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
4.92	With both sessions open, demonstrate that the users can view the same clinical documentation: <ul style="list-style-type: none"> • Dr. Butler accesses and views clinical documentation in Theodore Smith's patient record; and • Dr. Alexander accesses and views clinical documentation in the same patient record. 	The Applicant demonstrates that Dr. Butler and Dr. Alexander are able to simultaneously view the same clinical documentation.		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail

Test Step		Expected Result	Actual Result	Pass/Fail	
4.93	Logout Dr. Butler.	Logout successful.			
4.94	Logout Dr. Alexander.	Logout successful.			